

Abstract
of
ROC (Taiwan) Patent Publication No. 280372
(corresponding to Patent Application No. 083218211)

Title: Improvement of the construction of a ball valve (II)

This invention relates to an improved construction of a ball valve (II), and particularly to a ball valve that can be assembled quickly and having a firm structure, wherein the ball valve at least comprises a valve main body, a valve stem, a valve member, a handle, a positioning ring in association with an annular sleeve, a C-shaped stopper band, a sleeve, and a sleeve nut in association with sealing rings and plastic rings. The ball valve is characterized in that two arched snap-fit grooves are oppositely arranged at one end of the valve main body, a small circumference of the positioning ring is adapted to engage the annular sleeve in association with the C-shaped stopper band, when the C-shaped stopper band is inserted into one end of the valve main body, so that the C-shaped stopper band having outward extending resilience engages its two engaging protrusions into two arched snap-fit grooves of the valve main body to facilitate the positioning of the valve member and the positioning ring. Even if the sleeve and the sleeve nut are all removed, the valve member and the positioning ring will not disengage.

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新 型

全 4 頁

(51)Int. Cl.³: F16K5/06

附件一

(54)名 稱: 球型閥結構之改良(二)

(21)申 請 案 號: 83218211

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[57]申請專利範圍:

1. 一種球型閥結構之改良(二), 其至少包含有:

閥體, 該閥體具腔室, 可為閥門置設, 且該閥門並固設有一閥桿, 且令該閥桿可自閥體之閥桿孔外伸, 以為一把手固定, 藉由把手啟、閉閥門者; 又於閥體內位於閥門一側則設有一定位環可將閥門定位; 而該定位環係具有一環圍面, 可為一環套套設, 再為套筒頂推, 且藉由套筒螺帽與閥體間之栓合, 形成本球型閥者;

而其特徵為該閥體係具有一個或複數個弧形扣合孔, 可配合C型止動帶運作; 又具C型止動帶、該止動帶之背表面係具有配合上述閥體扣合孔數量之扣座, 且令該C型止動帶可套設於環套之小環圍面, 於上述C型止動帶與環套套置於定位環之環圍面, 且由

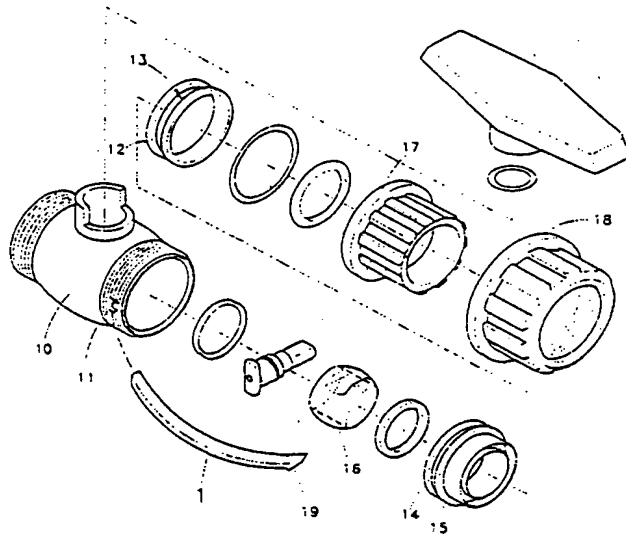
閥體一側置入後, 可利用該C型止動帶之外張彈力將其扣座彈入前述閥體之扣合孔中, 藉以達到令該C型止動帶使閥門及定位環被定位之功用者。

5. 2. 依申請專利範圍第1項所述之球型閥結構之改良(二), 其中該閥體上之弧形扣合孔, 若為複數個, 則以呈對應設置為最佳。
10. 3. 依申請專利範圍第1項所述之球型閥結構之改良(二), 其中該止動環可設有複數組者。

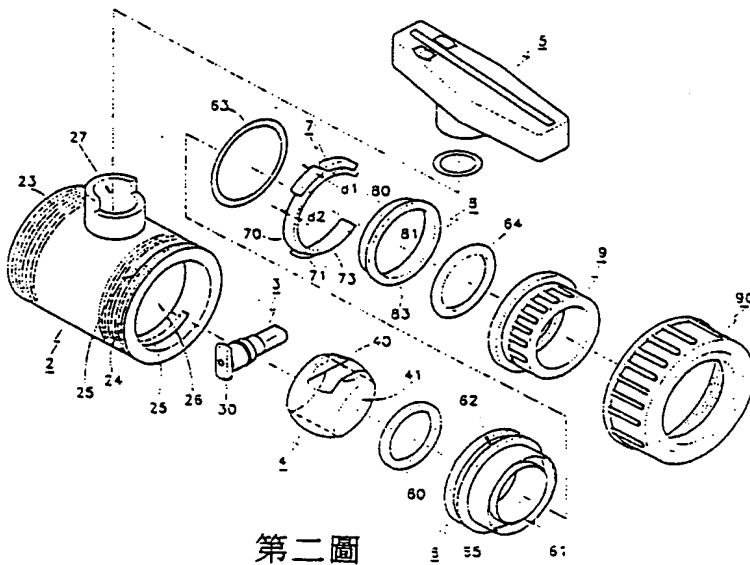
圖示簡單說明:

15. 第一圖: 習知者之立體分解圖。
- 第二圖: 本創作之立體分解圖。
- 第三圖: 本創作之開啟狀之剖視圖。
- 第四圖: 本創作之立體圖。
- 第五圖: 本創作又一實施例分解圖。

(2)

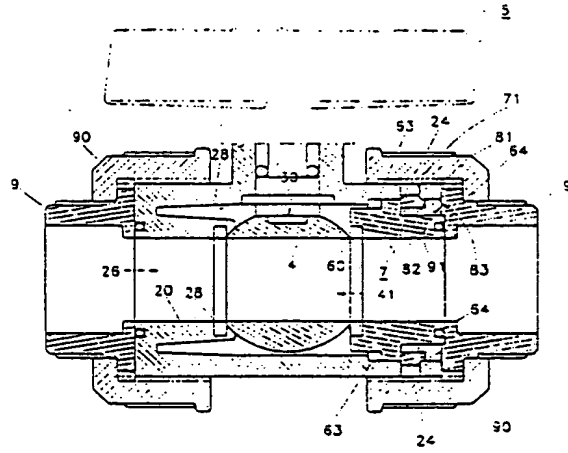


第一圖 (PRIOR ART)

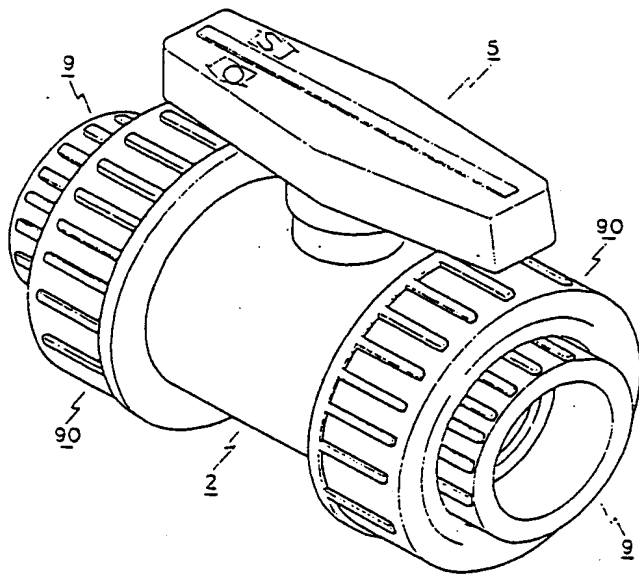


第二圖

(3)

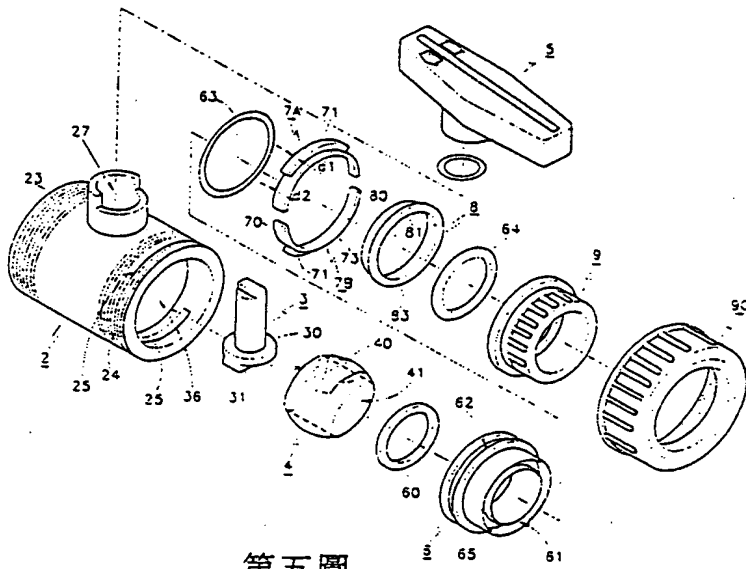


第三圖



第四圖

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第五圖